



DJ Lase Performance  
150 RGY / 250 RVP /  
200 GVC

showlaser

Musikhaus Thomann  
Thomann GmbH  
Hans-Thomann-Straße 1  
96138 Burgebrach  
Germany  
Telephone: +49 (0) 9546 9223-0  
E-mail: [info@thomann.de](mailto:info@thomann.de)  
Internet: [www.thomann.de](http://www.thomann.de)

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# 1 General notes



This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device, include the manual for the next owner.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

## **Symbols and signal words**

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
<b>DANGER!</b>	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
<b>WARNING!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
<b>NOTICE!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.
	Warning – laser radiation.

Warning signs	Type of danger
 A yellow triangular warning sign with a black border. Inside the triangle is a black silhouette of a person standing next to a large rectangular object (a load) that is being lifted by a crane hook and cables.	Warning – suspended load.
 A yellow triangular warning sign with a black border. Inside the triangle is a large black exclamation mark.	Warning – danger zone.

## 2 Safety notes

### **Intended use**

This device is intended to be used for the projection of laser light effects. It has been designed exclusively for show applications. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.



## Laser safety basics

Laser safety requirements are based on DIN EN 60825-1. The corresponding accident prevention regulation of the Accident Prevention and Insurance Association in Germany is BGV-B2.

This device contains a class-3B laser. It is equipped with a safety key. Always remove the key when the device is not attended by a trained operator.

As an operator you are responsible for the safety of all persons present. Familiarize yourself with the laser safety regulations that apply in your country. To ensure safe operation, it is important to pay attention to the following instructions.

Prior to commissioning, the company/operator must appoint a qualified person as laser protection officer in writing and notify the operation of the laser equipment to the Accident Prevention and Insurance Association and to the authority responsible for occupational safety. In the event of public use, the complete laser equipment must be approved by an expert (e. g. the Technical Control Board TÜV) prior to commissioning.

### Safety



#### **DANGER!**

##### **Danger for children**

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



#### **DANGER!**

##### **Electric shock caused by high voltages inside**

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.



**DANGER!**

**Electric shock caused by short-circuit**

Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



**DANGER!**

**Electric shock caused by short-circuit**

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



### **DANGER!**

#### **Laser radiation – avoid exposure to beam**

The device contains a class-3B laser, classified according to EN 60825-1. Do not look into the laser beam. The laser beam can injure your eyes when you directly look into it. Do not expose yourself to the laser beam. The laser beam can cause skin burns.

In this context take extreme care when using converging optical instruments.



### **WARNING!**

#### **Eye damage caused by high light intensity**

Never look directly into the light source.



**WARNING!**

**Risk of epileptic shock**

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



**NOTICE!**

**Laser radiation – risk of fire**

Keep the area exposed to laser radiation free from flammable substances.



**NOTICE!**

**Risk of fire**

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.



### **NOTICE!**

#### **Operating conditions**

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.



### **NOTICE!**

#### **Power supply**

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

### 3 Features

The showlaser is specially suited for discos, clubs, bars, stages, etc. Its control via the DMX interface allows smooth integration into light shows.

Special features of this device:

- Control via DMX (9 channels) and buttons plus display on the unit itself.
- Built-in automatic show programmes
- Sound control
- Master/slave mode
- 32 different patterns
- Two laser diodes with the corresponding mixed colour (150 RGY: red, green, yellow; 250 RVP: red, violet, pink; 200 GVC: green, violet, cyan)

# 4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

You can install the device on the wall, ceiling or floor. A mounting bracket is included in the package.



### **DANGER!**

#### **Laser radiation**

During installation follow the instructions in ↗ *'Laser safety basics' on page 9.*

To avoid laser emission, remove the safety key before you start to install the device.





**WARNING!**

**Stray laser radiation**

Inadequately secured additional components may cause stray laser radiation.  
Make sure that all additional components are adequately secured.



**WARNING!**

**Laser radiation – safety switch required**

The laser beam must be defeatable any time during operation, to avoid hazards by faults, unsafe operation conditions, or disturbance within the audience.

Therefore you have to connect a safety switch (emergency shut off) to the unit, by which you can switch off the laser any time even from a remote observation point (e.g. FOH position).



### **WARNING!**

#### **Risk of injury caused by falling objects**

Make sure that the installation complies with the standards and rules that apply in your country. Always secure the device with a secondary safety attachment, such as a safety cable or a safety chain.



### **NOTICE!**

#### **Risk of overheating**

The distance between the light output and the illuminated surface must be more than 0.5 m (19.7 in).

Always ensure sufficient ventilation.

The ambient temperature must always be below 40 °C (104 °F).

**NOTICE!****Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

**Safety switch (emergency stop)**

Connect the optional remote-control safety switch to the socket (8) of the device. An adapter for safety switches equipped with phone jacks is included in the delivery. If you press the switch, the laser beam will be switched off immediately. To unlock the switch and resume operation, turn the knob clockwise.

### DMX connections



The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.

Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX-, 'cold signal')
3	Signal (DMX+, 'hot signal')

## 5 Setup

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

**DANGER!****Laser radiation**

During installation follow the instructions in ↗ *'Laser safety basics' on page 9.*

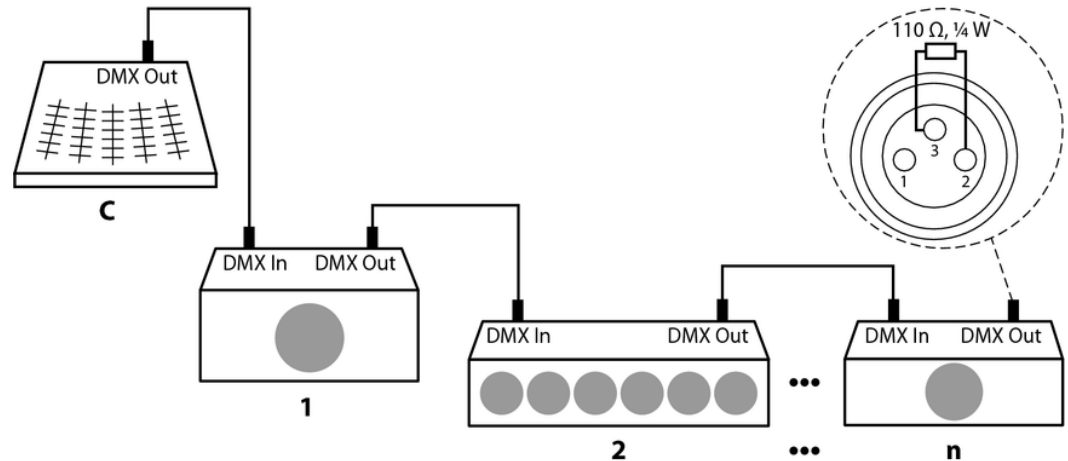
**NOTICE!****Possible data transmission errors**

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

## Connections in DMX mode

Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).



**DMX indicator**

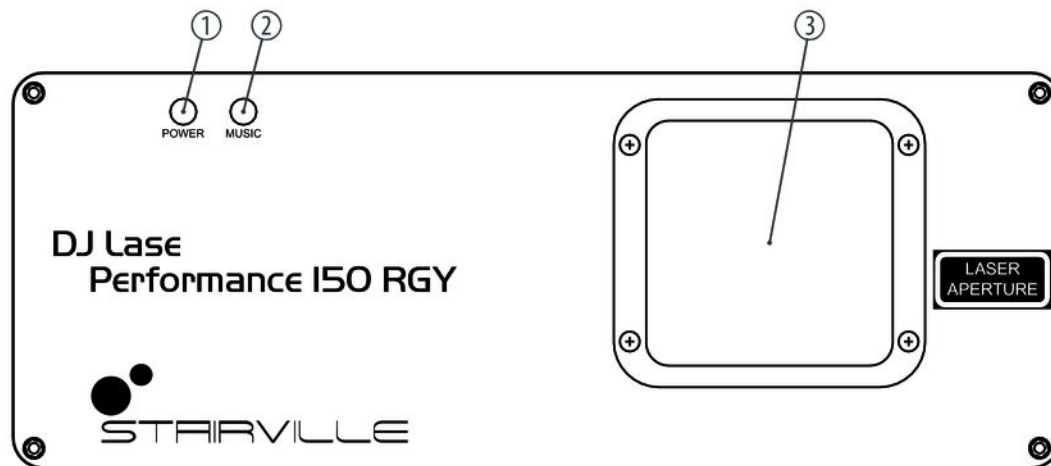
If the indicator is flashing in the DMX mode, no DMX signal is received. Maybe the DMX controller is not switched on or there is a cabling error. If the indicator lights permanently, the device receives a valid DMX signal.

**Connections in master/slave mode**

When you configure a group of devices in master/slave mode, the first unit will control the other units for an automatic, sound-activated, synchronized show. This function is ideal when you want to start a show immediately. Connect the DMX output of the master device to the DMX input of the first slave device. Then connect the DMX output of the first slave device to the DMX input of the second slave device and so on.

## 6 Connections and controls

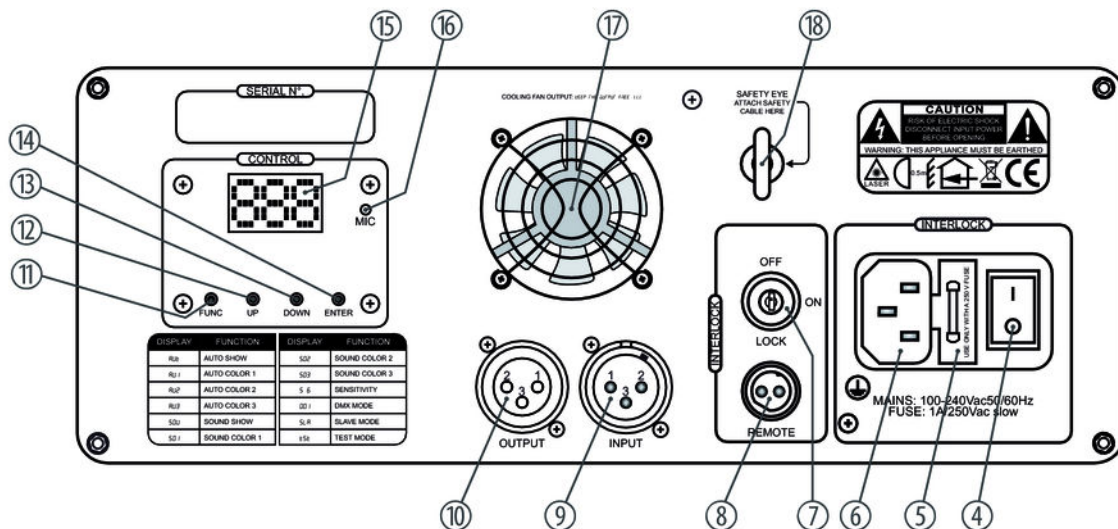
### Front panel





1	<b>LED POWER</b> Shows that the device is turned on.
2	<b>LED MUSIC</b> Shows that a sound or music signal is being detected.
3	Laser aperture.

## Rear panel



4	Power switch.
5	Fuse holder.
6	Plug for mains cable with fuse holder, the input voltage range is printed below.
7	<b>LOCK</b> Safety key switch: Turns the laser output on or off.
8	<b>REMOTE</b> Connection for optional remote safety switch (emergency stop). An adapter for safety switches equipped with phone jacks is included in the delivery.
9	<b>INPUT</b> DMX input.
10	<b>OUTPUT</b> DMX output.

11	<i>[FUNC]</i> button Opens the main menu.
12	<i>[UP]</i> button Increments the displayed value by one.
13	<i>[DOWN]</i> button Decrements the displayed value by one.
14	<i>[ENTER]</i> button Chooses between the options of the selected mode.
15	Display.
16	MIC Microphone used for the sound mode.
17	Fan.
18	Eyelet for safety cable.

## 7 Operation

### 7.1 Starting up the device

Perform the following steps to start up the device:

- 1.** ▶ Verify that all required laser safety precautions have been taken. Make sure that there is no one in the reach of the laser beam.
- 2.** ▶ Insert the safety key into the lock (7).
- 3.** ▶ If not already connected, connect the device to the mains (6).
- 4.** ▶ Using the main switch (4) turn the device on. After a few seconds, the fan and the motors start to work. The display shows the current operation mode. The device is now operational.
- 5.** ▶ Turn the safety key (7) to the “ON” position to turn the laser beam on.

### 7.2 Main menu

Press *[FUNC]* to activate the main menu and to select one of the operation modes.

When the display flashes, use the *[UP]* and *[DOWN]* buttons to change the displayed value. When the display shows the desired value, press *[ENTER]*. To go back to the main menu without any changes press *[FUNC]* or wait for one minute.

All previously made settings are saved, even if you disconnect the device from the power supply.

**Auto show mode**

Press *[FUNC]* until the display shows 'Aut'. The device operates in stand-alone mode and displays a pre-programmed show that can optionally be controlled by the built-in microphone. Using the *[UP]* and *[DOWN]* buttons, you can now choose between the show types shown in the table below. Press *[ENTER]* to store the value and to start the operation in Auto-Show mode.

Display	Show		
	DJ Lase Performance 150 RGY	DJ Lase Performance 250 RVP	DJ Lase Performance 200 GVC
	Item no. 255905	Item no. 255906	Item no. 255907
'Aut'	Auto show, green+red+yellow	Auto show, red+violet+pink	Auto show, green+violet+cyan
'Au1'	Auto show, red	Auto show, violet	Auto show, green
'Au2'	Auto show, green	Auto show, red	Auto show, violet
'Au3'	Auto show, yellow	Auto show, pink	Auto show, cyan
'Sou'	Sound-controlled show, green+red+yellow	Sound-controlled show, red+violet+pink	Sound-controlled show, green+violet+cyan
'So1'	Sound-controlled show, red	Sound-controlled show, violet	Sound-controlled show, green

Display	Show		
	DJ Lase Performance 150 RGY	DJ Lase Performance 250 RVP	DJ Lase Performance 200 GVC
	Item no. 255905	Item no. 255906	Item no. 255907
'So2'	Sound-controlled show, green	Sound-controlled show, red	Sound-controlled show, violet
'So3'	Sound-controlled show, yellow	Sound-controlled show, pink	Sound-controlled show, cyan

## Sound sensitivity

Press *[FUNC]* until the display shows 'S 6' and starts flashing. This menu is used to set the sensitivity of the microphone. Using the *[UP]* and *[DOWN]* buttons, you can now choose between 'S 0' (sensitivity = 0, music mode disabled) and 'S 1' (low sensitivity) to 'S 9' (high sensitivity). Press *[ENTER]* to store the setting.

## DMX mode

Press *[FUNC]* until the display shows '001'. You can now set the number of the first DMX channel used by the device (DMX address). Use the *[UP]* and *[DOWN]* buttons to select a value between 1 and 512. Press *[ENTER]* to store the value and to start the operation in DMX mode.

Ensure that this channel number fits to the configuration of your DMX controller. Since the device uses nine DMX channels, the highest usable DMX start address is 504.



**Master/Slave mode**

Press *[FUNC]* until the display shows 'SLA'. In this mode, the device exactly follows the operation of the "master" it is connected to. Press *[ENTER]* to confirm and to start the operation in Master/Slave mode.

**Self test mode**

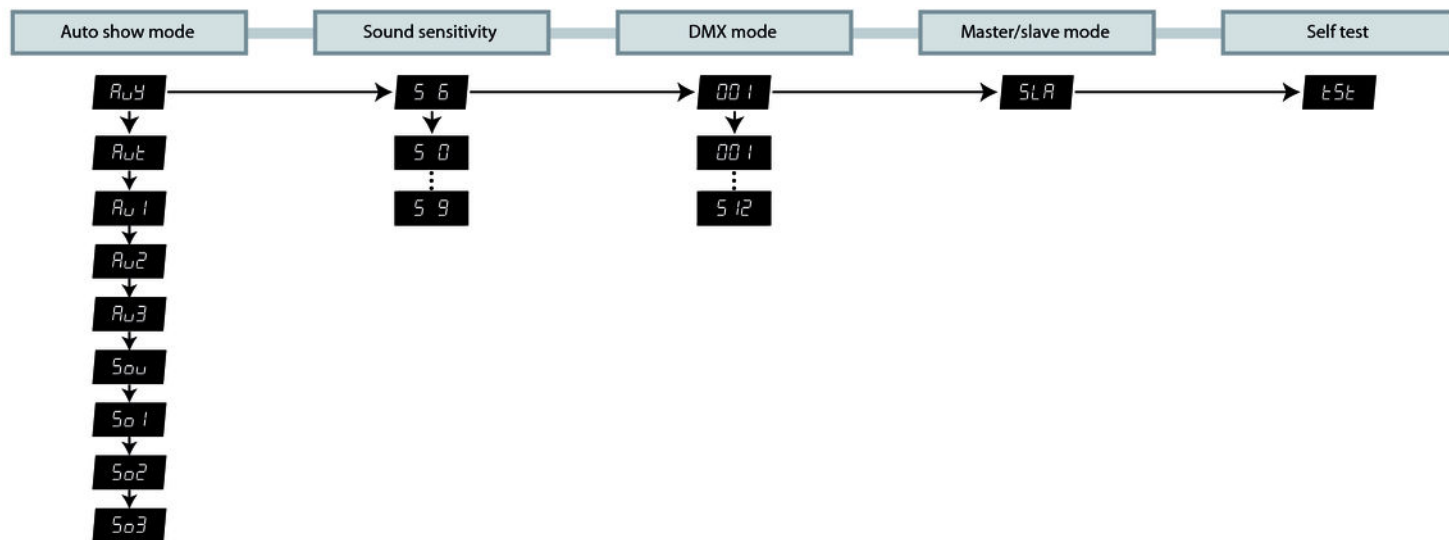
Press *[FUNC]* until the display shows 'tSt'. In this mode, the device performs a short self test. Press 'ENTER' to start a continuous self test. To finish the continuous self test press *[FUNC]*.

## 7.3 Stop the device

Perform the following steps to stop the device:

- 1.** ➤ Turn the safety key (7) to the "OFF" position to turn the laser beam off and remove the key. Keep the safety key under control.
- 2.** ➤ Using the main switch (4) turn the device off.
- 3.** ➤ Optionally, disconnect the device from the mains (6).

## 7.4 Menu diagram



## 7.5 Functions in DMX mode

### 150 RGY, item no. 255905

Channel	Value	Function
1	Mode selection	
	0...27	Laser off
	28...55	Auto show, green+red+yellow
	56...83	Auto show, red
	84...111	Auto show, green
	112...139	Auto show, yellow
	140...167	Sound-controlled show, green+red+yellow
	168...195	Sound-controlled show, red
	196...223	Sound-controlled show, green
	224...251	Sound-controlled show, yellow

Channel	Value	Function
	252...255	DMX mode This setting enables the function of the other DMX channels
2	0...255	Pattern selection (as shown in the pattern list)
3	Zoom	
	0...127	100 % to 5 % fixed zoom
	128...169	Zooming in effect, speed increasing from slow to fast
	170...209	Zooming out effect, speed increasing from slow to fast
	210...255	Zooming in and out effect, speed increasing from slow to fast
4	X axis moving	
	0...127	128 different fixed positions on X axis
	128...191	Clockwise moving effect, speed increasing from slow to fast
	192...225	Anti-clockwise moving effect, speed increasing from slow to fast
5	Y axis moving	
	0...127	128 different fixed positions on Y axis

Channel	Value	Function
	128...191	Clockwise moving effect, speed increasing from slow to fast
	192...255	Anti-clockwise moving effect, speed increasing from slow to fast
6	Y axis rotation	
	0...127	0° to 359° fixed Y axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
7	X axis rotation	
	0...127	0° to 359° fixed X axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
8	Z axis rotation	
	0...127	0° to 359° fixed Z axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast

Channel	Value	Function
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
9	Colour selection	
	0...31	Original pre-programmed colour
	32...63	Red
	64...95	Green
	96...127	Yellow
	128...255	Colour rolling

## 250 RVP, item no. 255906

Channel	Value	Function
1	Mode selection	
	0...27	Laser off
	28...55	Auto show, red+violet+pink

Channel	Value	Function
	56...83	Auto show, violet
	84...111	Auto show, red
	112...139	Auto show, pink
	140...167	Sound-controlled show, red+violet+pink
	168...195	Sound-controlled show, violet
	196...223	Sound-controlled show, red
	224...251	Sound-controlled show, pink
	252...255	DMX mode This setting enables the function of the other DMX channels
2	0...255	Pattern selection (as shown in the pattern list)
3	Zoom	
	0...127	100 % to 5 % fixed zoom
	128...169	Zooming in effect, speed increasing from slow to fast
	170...209	Zooming out effect, speed increasing from slow to fast

Channel	Value	Function
	210...255	Zooming in and out effect, speed increasing from slow to fast
4	X axis moving	
	0...127	128 different fixed positions on X axis
	128...191	Clockwise moving effect, speed increasing from slow to fast
	192...225	Anti-clockwise moving effect, speed increasing from slow to fast
5	Y axis moving	
	0...127	128 different fixed positions on Y axis
	128...191	Clockwise moving effect, speed increasing from slow to fast
	192...255	Anti-clockwise moving effect, speed increasing from slow to fast
6	Y axis rotation	
	0...127	0° to 359° fixed Y axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast



Channel	Value	Function
7	X axis rotation	
	0...127	0° to 359° fixed X axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
8	Z axis rotation	
	0...127	0° to 359° fixed Z axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
9	Colour selection	
	0...31	Original pre-programmed colour
	32...63	Red
	64...95	Violet

Channel	Value	Function
	96...127	Pink
	128...255	Colour rolling

## 200 GVC, item no. 255907

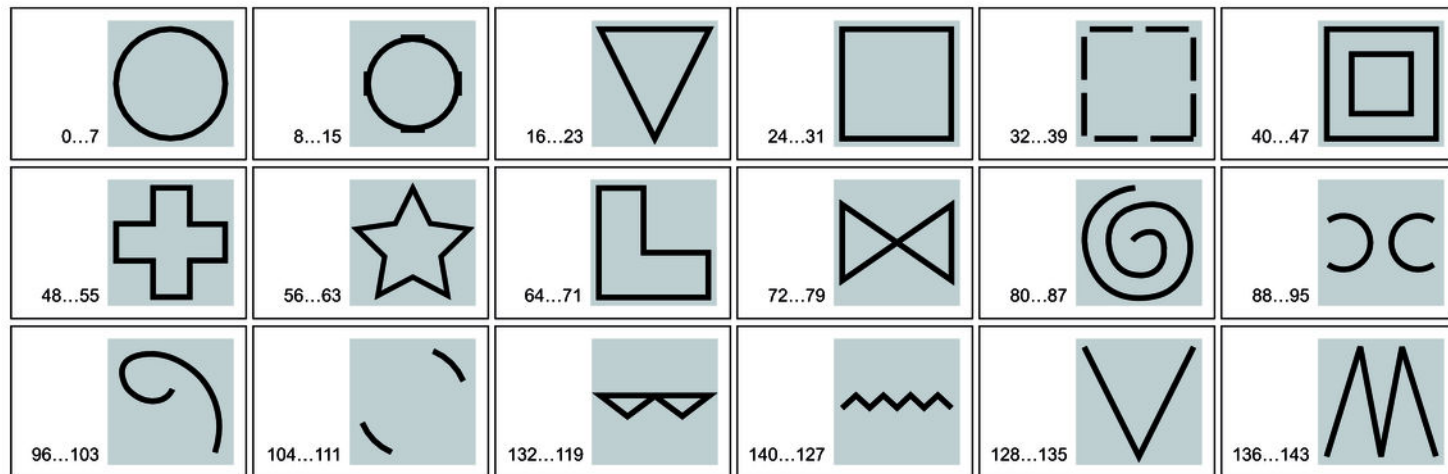
Channel	Value	Function
1	Mode selection	
	0...27	Laser off
	28...55	Auto show, green+violet+cyan
	56...83	Auto show, green
	84...111	Auto show, violet
	112...139	Auto show, cyan
	140...167	Sound-controlled show, green+violet+cyan
	168...195	Sound-controlled show, green

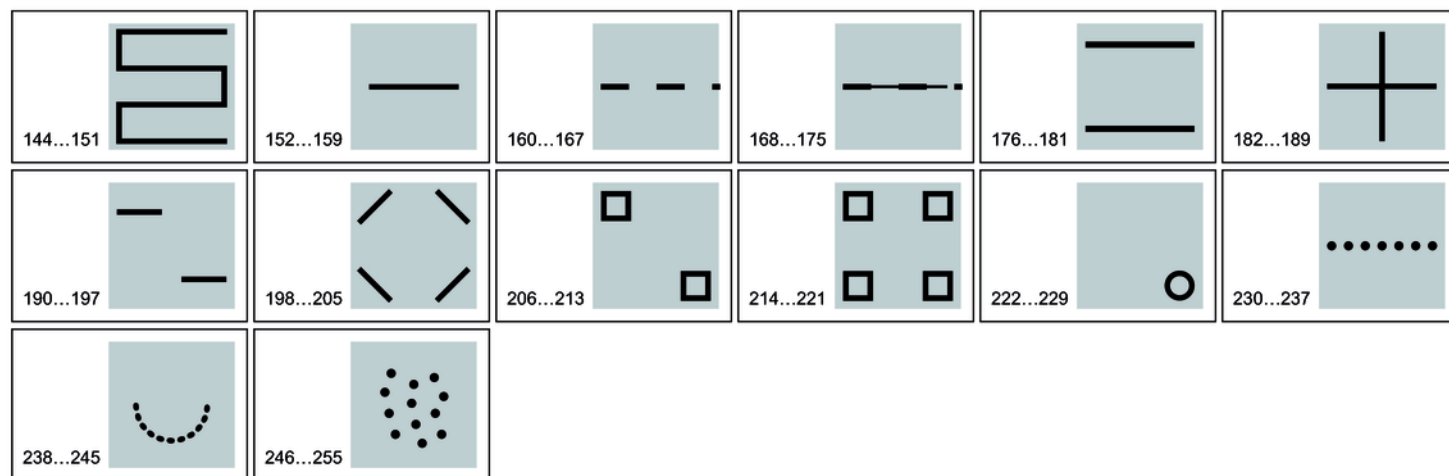
Channel	Value	Function
	196...223	Sound-controlled show, violet
	224...251	Sound-controlled show, cyan
	252...255	DMX mode This setting enables the function of the other DMX channels
2	0...255	Pattern selection (as shown in the pattern list)
3	Zoom	
	0...127	100 % to 5 % fixed zoom
	128...169	Zooming in effect, speed increasing from slow to fast
	170...209	Zooming out effect, speed increasing from slow to fast
	210...255	Zooming in and out effect, speed increasing from slow to fast
4	X axis moving	
	0...127	128 different fixed positions on X axis
	128...191	Clockwise moving effect, speed increasing from slow to fast
	192...225	Anti-clockwise moving effect, speed increasing from slow to fast

Channel	Value	Function
5	Y axis moving	
	0...127	128 different fixed positions on Y axis
	128...191	Clockwise moving effect, speed increasing from slow to fast
	192...255	Anti-clockwise moving effect, speed increasing from slow to fast
6	Y axis rotation	
	0...127	0° to 359° fixed Y axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
7	X axis rotation	
	0...127	0° to 359° fixed X axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
8	Z axis rotation	

Channel	Value	Function
	0...127	0° to 359° fixed Z axis position
	128...191	Clockwise rolling effect, speed increasing from slow to fast
	192...255	Anti-clockwise rolling effect, speed increasing from slow to fast
9	Colour selection	
	0...31	Original pre-programmed colour
	32...63	Violet
	64...95	Green
	96...127	Cyan
	128...255	Colour rolling

## 7.6 Pattern list





## 8 Technical data

	DJ Lase Performance 150 RGY	DJ Lase Performance 250 RVP	DJ Lase Performance 200 GVC
Item no.	255905	255906	255907
Laser medium	Green: 532 nm, Nd:YVO4 DPSS	Violet: 405 nm, GaAlAs	Violet: 405 nm, GaAlAs
	Red: 650 nm, LD GaAlAs	Red: 650 nm, LD GaAlAs	Green: 532 nm, Nd:YVO4 DPSS
Laser power	Green: > 50 mW	Violet: > 150 mW	Violet: > 150 mW
	Red: > 100 mW	Red: > 100 mW	Green: > 50 mW
Laser classification acc. to EN 60825-1 2007	3B		
Beam diameter at aperture	< 5 mm		
Pulse data	All pulses < 4 Hz (> 0.25 s)		
Divergence (each beam)	< 2 mrad		



	DJ Lase Performance 150 RGY	DJ Lase Performance 250 RVP	DJ Lase Performance 200 GVC
Divergence (total light)	< 160°		
Number of DMX channels	9		
Mains power supply	100 – 240 V ~ (AC), 50/60 Hz		
Fuse	5 mm × 20 mm, 1 A, 250 V, slow characteristic		
Power consumption	15 W		
Dimensions (W × D × H)	266 mm × 185 mm × 100 mm		
Weight	2.6 kg		

## 9 Troubleshooting



### **DANGER!**

#### **Laser radiation inside**

During troubleshooting follow the instructions specified in ↗ *'Laser safety basics'* on page 9.

Only qualified personnel may carry out service work on the (open) device.

Suitable laser protection glasses are required for any activities at the device.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
Device not working, no light, fan not working	Check the power connection and main fuse.
No response to the DMX controller	1. If the display shows a flashing number, for example '001', no DMX signal is being received. Verify that the DMX controller is switched on. Check the DMX connectors and cables to see if they are properly linked.
	2. If the display does not flash and there is no response, check the address settings and DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to the DMX interface circuit.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at [www.thomann.de](http://www.thomann.de).

## 10 Cleaning



### **DANGER!**

#### **Laser radiation**

During cleaning follow the instructions specified in ↗ *'Laser safety basics'* on page 9.

To avoid laser emission, remove the safety key before you start to clean the device.

### **Optical lenses**

Clean the exterior of accessible optical lenses periodically to optimise light output. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the optics of the device.

- Clean with a soft cloth using normal glass cleaning products.
- Always dry the parts carefully.

## 11 Protecting the environment

### Disposal of the packaging material



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

### Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.





